

AMENDMENTS TO THE SPECIFICATION:

Please replace the second full paragraph on page 6 with the following new paragraph:

Firstly, the present invention is characterized by a method or apparatus for describing a solid model existing in a 3-dimensional space with use of a bit-map, in which a plurality of different coordinate systems are provided with, and an area occupied by one of those different coordinate systems and part or whole of an area occupied by other coordinate systems are laid in layers.

Please replace the second full paragraph on page 7 with the following new paragraph:

Still another feature of the present invention is a solid machining method or apparatus for transmitting shape data through a communication line to manufacture a real body according to the shape data; the shape data is described by the above solid shape describing method.

Please replace the third full paragraph on page 7 with the following new paragraph:

According to this feature, it is possible to provide a solid machining system that can reduce the transmission time of complicated three-dimensional CAD data.

Please replace the second full paragraph on page 12 with the following new paragraph:

Still another feature of the present invention is a method employed by the machining unit in the above solid machining system. The method of the machining unit determines whether to refer to another floating coordinate system that describes the shape data more in detail according to the resolution of a machining tool.

Please replace the third full paragraph on page 12 with the following new paragraph:

According to this feature, it is possible to provide a solid machining system that can save the machining time while the required accuracy is assured.

Please replace the first full paragraph on page 13 with the following new paragraph:

Still another feature of the present invention is a recording medium for storing the above solid model.